

## **CURRICULUM VITAE**

**CUILIN ZHANG Ph.D., M.P.H., M.D.**

### **A. CURRENT POSITION**

Investigator (Tenure-track)  
Epidemiology Branch, Division of Epidemiology, Statistics, and Preventive Research  
*Eunice Kennedy Shriver* National Institute of Child Health and Human Development  
National Institutes of Health

### **B. ADDRESS**

6100 Executive Blvd, Room 7B03  
Rockville, Maryland 20852  
301-435-6917  
301-402-2084 (fax)  
[zhangcu@mail.nih.gov](mailto:zhangcu@mail.nih.gov)

### **C. EDUCATION**

Postdoctoral Fellowship	Genetic & Nutritional Epidemiology, Harvard University
Ph.D.	Epidemiology, University of Washington
M.P.H.	Epidemiology, University of Washington
M.D.	Preventive Medicine, Beijing Medical University

### **D. PROFESSIONAL APPOINTMENTS**

2007-present	Investigator (tenure track), Division of Epidemiology, Statistics, and Prevention Research, <i>Eunice Kennedy Shriver</i> National Institute of Child Health and Human Development, National Institutes of Health
2006-2007	Research Scientist, School of Public Health, Harvard University
2004-2006	Research Associate, School of Public Health, Harvard University

### **E. OTHER PROFESSIONAL ACTIVITIES**

2008-present	Associate Editorial Board, International Journal of Molecular Epidemiology and Genetics
2007-present	Academic Editor, Public Library of Science (PLOS) ONE
2003-present	Ad Hoc Reviewer: JAMA, Annals of Internal Medicine, Archives of Internal Medicine, American Journal of Human Genetics, American College of Clinical Nutrition, American Journal of Epidemiology, American Journal of Clinical Nutrition, Canadian Medical Association Journal, Circulation, European Journal of Clinical Nutrition, European Journal of Clinical Investigation, Endocrinology, Diabetes, Diabetes Care, Diabetes Research and Clinical Practice, Hypertension, Metabolism, Obesity Research, Obesity, PLoS Genetics, PLoS Medicine
2006	Expert Panelist, CDC Expert Panel for Gestational Diabetes Beyond Pregnancy
2008	Grant Reviewer, Michigan Center for Diabetes Research
2009	Grant Reviewer, Board of Regents Support Fund Research and Development Program, Louisiana Board of Regents

- 2008-present    NICHD representative, National Institutes of Health Road Map Genotyping/Gene Expression Working Group Committee
- 2008-present    Core Member, NICHD/National Institutes of Health Obesity Research Core
- 2011-present    Member of the Steering Committee for the Global Pregnancy Colaboratory which aims to support efforts to harmonize data to answer pressing questions on pregnancy outcomes requiring collaborative efforts and mega databases worldwide

## F. HONOR AND AWARDS

- 2010            Rising Star Award, Society for Pediatric and Perinatal Epidemiologic Research
- 2010            Kelly West Lectureship, Oklahoma Diabetes Center, University of Oklahoma
- 2004            Distinguished Achievement Award, Department of Epidemiology, University of Washington
- 2001            Travel Award, Society for Epidemiologic Research (SER) (in connection with Congress of Epidemiology/SER, Toronto, Canada, June 13-16, 2001)
- 2000            Student Prize Paper Award (first prize), Society for Pediatric and Perinatal Epidemiologic Research (SPER), USA
- 1997            Merit based Graduate Scholarship, University of Washington
- 1991            Jin Baoshan Scholarship in Preventive Medicine, Beijing Medical University

## G. PUBLICATIONS

### PEER REVIEWED ARTICLES

**\*\* Mentee first authored publication**

1.    Ware-Jauregui S, Sanchez S, **Zhang C**, Larraburre G, King IB, Williams MA. Plasma lipid concentrations in preeclamptic and normotensive Peruvian women. *Intl J Gynecol* 1999;67:147-55.
2.    Sanchez S, **Zhang C**, Williams MA, Ware-Jauregui S, Laraburre G, Bazul V, Farrand A. Tumor necrosis factor- $\alpha$  soluble receptor p55 (sTNFp55) and risk of preeclampsia in Peruvian women. *J Reprod Immunol* 2000;47:49-63.
3.    Sanchez S, **Zhang C**, Malinow MR, Ware-Jauregui S, Laraburre G, Williams MA. Plasma folate, vitamin B12 and homocyst(e)ine concentrations in preeclamptic and normotensive Peruvian women. *Am J Epidemiol* 2001;153:474-80.
4.    **Zhang C**, Williams MA, Sanchez S, King I, Ware-Jauregui S, Laraburre G, Bazul V, Leisenring WM. Plasma carotenoids, retinol and tocopherols in preeclamptic and normotensive pregnant women. *Am J Epidemiol* 2001;153:572-80.
5.    **Zhang C**, Williams MA, King IB, Dashow EE, Sorensen TK, Frederick IO, Thompson ML, Luthy DA. Vitamin C and the risk of preeclampsia-results from dietary questionnaire and plasma assay. *Epidemiology* 2002;13:409-16.
6.    Sanchez SE, **Zhang C**, Williams MA. The influence of maternal triglyceride levels on low birth weight in preeclamptic and normotensive Peruvian Women. *J Matern Fetal Neonatal Med* 2003;13:328-33.
7.    Sanchez SE, **Zhang C**, Qiu C, Williams MA. Family history of hypertension and type 2 diabetes in relation to preeclampsia risk among peruvian women. *Gynecol Obstet Inves*

2003;56:128-32.

8. Williams MA, Sanchez SE, **Zhang C**, Bazul V. Methylenetetrahydrofolate Reductase 677 C → T Polymorphism and Plasma Folate in Relation to Preeclampsia Risk among Peruvian Women. *J Maternl -Fetal Neonatal Med* 2004;15:337-44.
9. **Zhang C**, Williams MA, Sorensen TK, King IB, Thompson ML, Leisenring WM, Dashow E. A prospective study of maternal plasma ascorbic acid (Vitamin C) concentrations and risk of gestational diabetes mellitus (GDM). *Epidemiology* 2004;15:597-604.
10. Qiu C, Luthy D, **Zhang C**, Williams MA. A Prospective Study of Maternal Serum C-Reactive Protein (CRP) Concentrations and Risk of Preeclampsia. *Am J Hypert* 2004;17:154-60.
11. **Zhang C**, Williams MA, Sorensen TK, Frederick IO, King IB, Thompson ML, Kestin MM, Dashow E. A case-control study of vitamin C and the risk of gestational diabetes mellitus (GDM)-results from dietary questionnaire and plasma assay *J Reprod Med* 2004;49:257-66.
12. Austin MA, **Zhang C**, Humphries SE, Chandler WL, Talmud PJ, Edwards KL, Leonetti DL, McNeely MJ, Fujimoto WY. Heritability of C-reactive protein and association with apolipoprotein E genotypes in Japanese Americans. *Ann Hum Genet* 2004;68:179-88.
13. Frederick IO, Williams MA, Dashow E, Kestin M, **Zhang C**, Leisenring WM. Dietary fiber, potassium, magnesium, and calcium, in relation to the risk of preeclampsia. *J Reprod Med* 2005; 50:322-44.
14. Enquobahrie DA, Sanchez SE, Muy-Rivera M, Qiu C, **Zhang C**, Austin MA, Williams MA. Hepatic lipase gene polymorphism, pre-pregnancy overweight status and risk of preeclampsia among Peruvian women. *Gynecological Endocrinology* 2005; 21:211-17.
15. Qi L, Li T, Rimm EB, **Zhang C**, Rifai N, Hunter DJ, Doria A and Hu FB. Adiponectin genotypes in relation to plasma adiponectin concentration and risk of cardiovascular disease in diabetic men. *Diabetes* 2005; 54:1607-10.
16. **Zhang C**, Williams MA, Edwards KL, Austin MA. Trp<sup>64</sup>Arg polymorphism of the  $\beta_3$ -adrenergic receptor gene, pre- pregnancy obesity and risk of preeclampsia. *J Maternl-Fetal Neonatal Med* 2005;17:19-28.
17. **Zhang C**, Austin MA, Edwards KL, Farin FM, Li N, Hsu L, Srinouanprachanh S, Williams MA. Variants of the lipoprotein lipase gene and preeclampsia Risk. *Clin Genetics* 2005;69:33-39.
18. **Zhang C**, Lopez-Ridaura R, Rimm EB, Rifai N, Hunter DJ, Hu FB. Interactions between the 514 C-T variant of the hepatic lipase gene and lifestyle factors in relation to high density-lipoprotein concentrations among US diabetic Men. *Am J Clin Nutr* 2005;81:1429-35.
19. **Zhang C**, Lopez-Ridaura R, Rimm EB, Li T, Hunter DJ, Hu FB. Genetic variation at the hepatic lipase gene and risk of coronary heart disease among US diabetic men: potential interaction with obesity. *Diabetologia* 2006;49:1552-9.

20. **Zhang C**, Liu S, Solomon CG, Hu FB. A prospective study of dietary fiber intake and glycemic load in relation to the risk for gestational diabetes mellitus. *Diabetes Care* 2006;29:2223-30.
21. **Zhang C**, Qi L, Hunter DJ, Meigs JB, Manson JE, van Dam RM, Hu FB Variant of transcription factor 7-like 2 gene and the risk of type 2 diabetes mellitus in large cohorts of U.S. women and men. *Diabetes* 2006;55:2645-8.
22. **Zhang C**, Schulze MB, Solomon CG, Hu FB. A prospective Study of dietary patterns and meat intake and the risk for gestational diabetes mellitus: the Nurses' Health Study II. *Diabetologia* 2006;49:1552-9.
23. **Zhang C**, Lopez-Ridaura R, Hunter DJ, Rifai N, Hu FB. Genotypes and haplotypes of the endothelial nitric oxide synthase gene and the risk of coronary heart disease among US diabetic men. *Diabetes* 2006;55:2140-7.
24. **Zhang C**, Solomon CG, Manson JE, Hu FB. A prospective study of physical activity in relation to the risk for gestational diabetes mellitus. *Arch Intern Med* 2006;166:543-8.
25. Qi L, **Zhang C**, van Dam R, Hu FB Interleukin-6 genetic variability and adiposity: associations in two prospective cohorts and systematic review in 26,944 individuals. *J Clin Endocrinol Metab.* 2007;92:3618-25.
26. Li T, **Zhang C**, Rimm EB, Hunter DJ, Hu FB Interactions Between The CETP TAQ1 variants and lifestyle factors in relation to high density-lipoprotein levels and risk of coronary heart disease among US diabetic men. *Am J Clin Nutr* 2007; 86:1524-9.
27. Qi L, **Zhang C**, Hu FB, Greenberg A Common variations in perilipin gene, central obesity, and risk of type 2 diabetes in US women. *Obesity* (Silver Spring). 2008;16:1061-5.
28. Qi L, Kang K, **Zhang C**, Kraft P, Hunter D, and Hu FB FTO gene variant is associated with obesity: longitudinal analyses of two cohort studies. *Diabetes* 2008;57:3145-51.
29. Heidemann C, Sun Q, van Dam RM, Meigs JB, **Zhang C**, Tworoger S, Mantzoros CS, Hu FB A prospective study of plasma total and high-molecular weight adiponectin and resistin in relation to the risk of type 2 diabetes in Women. *Ann Intern Med* 2008;149:307-16.
30. **Zhang C**, Qiu C, David RM, Bralley A, Williams MA Maternal plasma 25-hydroxyvitamin D concentrations and the risk for gestational diabetes mellitus. *PLoS ONE.* 2008;3:e3753-58.
31. **Zhang C**, Rexrode KM, van Dam RM, Li TY, Hu FB Abdominal adiposity and mortality in women: 16-year Follow-up of the Nurses' Health Study. *Circulation* 2008;117:1658-67.
32. Qi L, Cornelis M, **Zhang C**, van Dam R, Hu FB Genetic predisposition, western dietary pattern, and the risk of type 2 diabetes in men. *Am J Clin Nutr* 2009;89:1453-8.
33. Klebanoff M, Zhang J, **Zhang C**, Levine R. Maternal serum theobromine and the subsequent Development of preeclampsia. *Am J of Epidemiol* 2009;20:727-32.
34. Gaskins A, Mumford S, **Zhang C**, Wactawski-Wende J, Hovey K, Howards P, et al. Impact of daily fiber intake on reproductive function. *Am J Clin Nutr* 2009;90:1061-9.

\*\* Mentee first authored publication

35. Cornelis M, Qi L, **Zhang C**, van dam R, Hu FB. Joint effects of common genetic variants on the risk of type 2 diabetes in U.S. men and women of European ancestry *Ann Intern Med* 2009;150:541-50.
36. Lindgren CM, Heid I, ... **Zhang C**, ... McCarthy MI for Giant Consortium. Genome wide association scan meta-analysis identifies three loci influencing adiposity and fat distribution *PLoS Genet.* 2009;5:e1000508-518.
37. He C\*\*, **Zhang C**, Hunter D, Louis G, Hediger M, Hu FB. Age at menarche and risk of type 2 diabetes: Results from two large prospective cohorts *Am J Epidemiol* 2009 Dec 21. [Epub ahead]
38. Cui W, **Zhang C**, Song Y Genome-wide association studies (GWAS) deliver breakthroughs in identifying type 2 diabetes susceptibility genes in the general population. *North America Journal of Medicine and Science* 2009;2:e140-45.
39. Yang H, Wei Y, Gao X, **Zhang C** on behalf of China National GDM Survey Working Group Risk factors for gestational diabetes-A study of 16, 286 pregnant women in China. *Diabetic Medicine* 2009;26:1099-104.
40. Chen L\*\*, Hu FB, Yeung E, Willett W, **Zhang C** A Prospective study of pre-gravid consumption of sugar-sweetened beverages and the risk of gestational diabetes mellitus. *Diabetes Care* 2009;32: 2236-41.
41. Yeung E\*\*, Hu FB, Solomon CG, Chen L, Louis GM, Schisterman E, Willett WC, **Zhang C**. Life-course weight characteristics and the risk of gestational diabetes. *Diabetologia* 2010;53:668-78.
42. Shi Z, Yuan B, **Zhang C**, Zhou M, Holmboe-Ottesen G Egg consumption and the risk of diabetes in adults, Jiangsu, China. *Nutrition* 2011;27:194-8.
43. Yeung E\*\*, **Zhang C**, Louis G, Willett W, Hu F. Childhood size and life course weight characteristics in association with the risk of incident type 2 diabetes. *Diabetes Care* 2010;33:1364-9.
44. He M, Cornelis M, Franks PW, **Zhang C**, Hu FB, Qi L Obesity genotype score and cardiovascular risk in women with type 2 diabetes. *Arteriosclerosis, Thrombosis, and Vascular Biology.* 2010;30:327-32
45. Schisterman E, Gaskins A, Mumford S, Browne R, Yeung E, Gross M, Trevisan M, Hediger M, **Zhang C**, Wactawski-Wende J, Perkins N, Hovey K. The influence of endogenous reproductive hormones on F2-isoprostane levels in premenopausal women: The BioCycle Study *Am J of Epidemiol* 2010;172:430-9
46. Mumford SL, Schisterman EF, Siega-Riz AM, Gaskins AJ, Steiner AZ, **Zhang C**, Perkins NJ, Trevisan M, Browne RW, Wactawski-Wende J. Changes in lipoproteins due to endogenous reproductive hormones during the menstrual cycle *J Clin Endocrinol Metab.* 2010;95:E80-5.

\*\* Mentee first authored publication

47. Gaskins AJ, Mumford SL, Rovner AJ, **Zhang C**, Chen L, Wactawski-Wende J, Perkins NJ, Schisterman EF; for the BioCycle Study Group. Whole Grains Are Associated with Serum Concentrations of High Sensitivity C-Reactive Protein among Premenopausal Women. *J Nutr*. 2010;140:1669-76.
48. Yeung E\*\*, **Zhang C**, Ye A, Chen L, Mumford S, Perkins N, Wactawski-Wende J, Schisterman E. Longitudinal study of insulin resistance and sex hormones over the menstrual cycle. *J Clin Endocrinol Metab*. 2010;95:5435-42
49. Yeung E\*\*, **Zhang C**, Hediger ML, Wactawski-Wende J, Schisterman EF. Racial Difference in the Association between Sex Hormone Binding Globulin and Adiposity in Premenopausal Women: The BioCycle Study. *Diabetes Care*. 2010;33:2274-6.
50. Rudra CB, Wactawski-Wende J, Schisterman EF, Hovey KM, Browne RW, **Zhang C**, Hediger ML Energy expenditure and plasma F2-isoprostane concentrations across the menstrual cycle. *Medicine & Science in Sports & Exercise* 2010;43:785-92
51. Tobias DK\*\*, **Zhang C**, van Dam RM, Hu FB A meta-analysis of physical activity levels before pregnancy or in early pregnancy and risk of gestational diabetes mellitus. *Diabetes Care* 2011;34:223-9
52. Zhang F, Dong L, **Zhang C**, Li B, Gao W, Sun S, Tian H, Tuomilehto J, Qi L, Yu Z, Yang X, Hu G Increasing prevalence of gestational diabetes mellitus in Chinese women from 1999 to 2008 *Diabetic Medicine* 2011;28:652-657
53. Qiu C, Frederick IO, **Zhang C**, Sorensen TK, Enquobahrie DA, Williams MA Risk of Gestational Diabetes Mellitus in Relation to Maternal Early Pregnancy Egg and Cholesterol Intake. *Am J of Epidemiol* 2011;173:649-58
54. Tobias DK\*\*, Hu FB, Forman JP, Chavarro J, **Zhang C** Increased risk of hypertension after GDM –Findings from a large prospective cohort study. *Diabetes Care*. 2011;34:1582-4
55. Bowers K\*\*, Yeung E, Williams MA, Qi L, Tobias DK, Hu FB, **Zhang C** A prospective study of pre-pregnancy dietary iron intake and risk for gestational diabetes *Diabetes Care* 2011;34:1557-63
56. Qiu C, **Zhang C**, Gelaye B, Enquobahrie DA, Frederick IO, Williams MA. Gestational diabetes mellitus in relation to maternal dietary heme iron and nonheme iron intake *Diabetes Care* 2011; 34:1564-9.
57. Chen L\*\*, **Zhang C**, Yeung E, Ye A, Mumford S, Wactawski-Wende J, Schisterman EF Age at menarche and metabolic markers for diabetes in premenopausal women *J Clin Endocrinol Metab*. 2011;96:E1007-12
58. Pan X, **Zhang C**, Shi Z. Soft drink and sweet food consumption and suicidal behaviours among Chinese adolescents. *Acta Paediatr*. 2011;100:e215-22.
59. Zhang F, Dong L, **Zhang C**, Li B, Wen J, Gao W, Sun S, Lv F, Tian H, Tuomilehto J, Qi L, Zhang C, Yu Z, Yang X, Hu G. Increasing prevalence of gestational diabetes mellitus in Chinese women from 1999 to 2008. *Diabet Med* 2011;28:652-7

\*\* Mentee first authored publication

60. Yeung E\*\*, Qi L, Hu FB, **Zhang C** Novel abdominal adiposity genes and the risk of type 2 diabetes: findings from two prospective cohorts *In J Mol Epi Gent* 2011;2:138-44
61. Bowers K\*\*, Hu G, Yu Z, Yang X, Klebanoff M, Yeung E, **Zhang C**. Birth weight, postnatal weight gain and high blood pressure among Chinese children 3-7 years old: a population based study. *Pediatrics* 2011;127:e1272-9.
62. **Zhang C**, Ning Y. Effect of dietary and lifestyle factors on the risk for gestational diabetes: Review of epidemiologic evidence. *Am J Clin Nutr* 2011;94:1975S-9S
63. Yeung E\*\*, **Zhang C**, Chen J, Kang G, Bowers K, Hu FB, Qi L Polymorphisms in the Neuropeptide Y gene and the risk of obesity: findings from two prospective cohorts *J Clin Endocrinol Metab* 2011;96:E2055-62.
64. Bowers K\*\*, **Zhang C** Maternal diabetes and autism spectrum disorders in the offspring: a review of epidemiological evidence and potential biologic mechanisms *N A J Med Sci* 2011;4:217-21.
65. Qi Q, Workalemahu T, **Zhang C**, Hu FB, Qi L Genetic variants, plasma lipoprotein(a) levels and risk of cardiovascular incidence and mortality among two prospective cohorts of type 2 diabetes *Eur Heart J* 2012;33:325-34.
66. Chen J, Kang G, VanderWeele T, **Zhang C**, Mukherjee B. Efficient designs of gene-environment interaction studies: implications of Hardy-Weinberg Equilibrium and gene-environment independence *Stat Med.* 2012 Feb 24.
67. Yeung E\*\*, **Zhang C**, Schisterman E Adiposity and sex hormones across the menstrual cycle: the BioCycle Study *In J Obesity* (Lond). 2012 Feb 7 [Epub ahead of print]
68. Schliep KC, Schisterman EF, Mumford SL, Pollack AZ, **Zhang C**, Ye A, Stanford JB, Ahmad O, Hammoud AO, Porucznik CA, Wactawski-Wende J Caffeinated beverage intake and reproductive hormones among premenopausal women in the BioCycle Study *Am J Clin Nutr* 2012;95:488-97
69. Bowers K\*\*, Tobias D, Yeung E, Hu FB, **Zhang C** A prospective study of pre-pregnancy dietary fat intake and risk for gestational diabetes *Am J Clin Nutr* 2012;95:446-53.
70. Chen L\*\*, Yeung E, Hu FB, Willett W, **Zhang C** Pre-pregnancy consumption of fruits and fruit juices and the risk of gestational diabetes mellitus: a prospective cohort study *Diabetes Care* 2012;35:1079-81.
71. Schliep KC, Schisterman EF, Mumford SL, Perkins NJ, Ye A, Pollack AZ, **Zhang C**, Christina A. Porucznik CA, VanDerslice JA, Stanford JB, Wactawski-Wende J Caffeine Validation Using Different Instruments in the BioCycle Study *Am J Epidemiol* 2012 in press
72. Blondin SA, Yeung E, Mumford S, **Zhang C**, Browne RW, Wactawski-Wende J, Schisterman E Serum retinol and carotenoids in association with biomarkers of insulin resistance among healthy, premenopausal women: the BioCycle Study *ISRN Nutrition* in press

\*\* Mentee first authored publication

73. Hu G, Tian H, Zhang F, Liu H, Zhang C, Zhang S, Liu G, Yu Z, Yang X, Qi L, **Zhang C**, Wang H, Li M, Wang L, Dong L, Heymsfield SB, Tuomilehto J. Tianjin Gestational Diabetes Mellitus Prevention Program: Study design, methods, and 1-year interim report on the feasibility of lifestyle intervention program. *Diabetes Research and Clinical Practice* In press
74. Wu J, **Zhang C**, Chen J Design cost-effective candidate gene and genome-wide association studies of mother-child pairs. *Statistics and Its Interface* in press
75. Tobias DK\*\*, **Zhang C**, Chavarro J, Bowers K, Rich-Edwards J, Rosner B, Mozaffarian D, Hu FB Prepregnancy adherence to dietary patterns and lower risk of gestational diabetes mellitus *Am J Clin Nutr* 2012;96:289-95.
76. Gaskins AJ, Mumford SL, Chavarro J, **Zhang C**, Pollack AZ, Wactawski-Wende J, Perkins NJ, Schisterman EF The Impact of Dietary Folate Intake on Reproductive Function in Premenopausal Women: a Prospective Cohort Study *PLoS ONE* in press
77. Zhang X, Qi Q, **Zhang C**, Hu FB, Sacks FM, Qi L FTO Genotype and 2-year Change in Body Composition and Fat Distribution in Response to Weight-Loss Diets: the Pounds Lost Trial *Diabetes* in press
78. Tobias DK\*\*, Hu FB, Chavarro J, Rosner B, Mozaffarian, **Zhang C** Healthful dietary patterns and type 2 diabetes risk among women at high risk Tobias DK. *Arch Intern Med* in press
79. Song Y\*, Yeung E, Liu A, VanderWeele TJ, Chen L, Lu C, Liu C, Schisterman EF, Ning Y, **Zhang C\*** Pancreatic Beta-cell function and type 2 diabetes risk: quantify the causal effect using a Mendelian randomization approach based on meta-analyses *Hum Mol Genet* 2012 in press (\* equal contribution, co-first author)
80. Schliep KC, Schisterman EF, Mumford SL, Pollack AZ, Perkins NJ, Ye A, **Zhang C**, Stanford JB, Porucznik CA, Hammoud AO, Wactawski-Wende J Energy-containing beverages: reproductive hormones and ovarian function in the BioCycle Study *Am J Clin Nutr* in press
81. Schliep KC, Mumford SL, Pollack AZ, Perkins NJ, **Zhang C**, Porucznik CA, VanDerslice J, Wactawski-Wende J, Schisterman EF. Self-reported intake of caffeine: comparing measurement tools in the BioCycle Study. Revision based on reviewers' comments submitted, *Am J of Epidemiol* in press
82. Song Y, Wang L, Pittas AG, Del Gobbo LC, **Zhang C**, Manson JE, and Hu FB. Blood 25-hydroxy vitamin D levels and incident type 2 diabetes: a meta-analysis of prospective studies. *Diabetes Care* in press.
83. Wang L, Song Y, Manson JA, Pilz S, März W, MD, Michaëlsson K, Lundqvist A, Jassal SK, Barrett-Connor E, **Zhang C**, Eaton CB, May HT, Anderson JL, Sesso HD Circulating Levels of 25Hydroxy-Vitamin D and Risk of Cardiovascular Disease: A Meta-Analysis of Prospective Studies *Circulation: Cardiovascular Quality and Outcomes* in press

\*\* Mentee first authored publication

84. Buck Louis GM, Yeung E, Sundaram R, Laughon SK, **Zhang C** The Exposome – exciting opportunities for discoveries in reproductive and perinatal epidemiology *Paediatric and Perinatal Epidemiology*. in press
85. Boghossian N, Yeung E, Mumford S, **Zhang C**, Gaskins A, Wactawski-Wende J, Schisterman EF. Adherence to the Mediterranean diet and body fat distribution in reproductive aged women *European Journal of Clinical Nutrition* in press
86. Bao W\*\*, Bowers K, Tobias DK, Hu FB, **Zhang C** Prepregnancy dietary protein intake, major dietary protein sources, and the risk of gestational diabetes mellitus: a prospective cohort study *Diabetes Care*. 2012 in press

## INVITED BOOK CHAPTERS

1. Song Y, **Zhang C**, Liu S Endothelial adhesion molecules in diabetes in *Modern Insights Into Disease From Molecules to Man: Adhesion Molecules* Editor: Professor Victor R Preedy Springer New York 2009
2. **Zhang C** Risk factors for gestational diabetes in *Diabetes during and after Pregnancy* Editor: Kim & Ferrara Springer Verlag London 2010
3. **Zhang C**, Hu FB Determinants of Obesity in *Maternal Obesity* Editor: Gillman & Poston Cambridge University Press 2012
4. Yeung E, **Zhang C** Maternal Anthropometric Indices and Gestational Diabetes in *Handbook of Anthropometry: Physical Measures of Human Form in Health and Disease* Editor: Professor Victor R Preedy Springer, New York 2012
5. Song Y, Yeung E, **Zhang C** Body size at birth and risk of type 2 diabetes in adult life in *Handbook of Anthropometry: Physical Measures of Human Form in Health and Disease* Editor: Professor Victor R Preedy Springer, New York 2012

## H. INVITED PLENARY TALKS & SEMINARS (selected)

1. Diabetes & Women's Health Study-Determinants of maternal progression from GDM to T2DM and adverse cardio-metabolic outcomes 7<sup>th</sup> *International Symposium on Diabetes in Pregnancy*. Florence, Italy, March 14, 2013.
2. Gestational diabetes: etiology, consequences and prevention European Early Nutrition and Fetal Programming Consortium Bi-Annual Symposium, Copenhagen March 13, 2013
3. Diabetes during and beyond pregnancy- a life course approach. The 4<sup>th</sup> Summit of Perinatal Medicine of China, Guangzhou, China, April, 2012
4. Novel risk factors for gestational diabetes. *China National Gestational Diabetes Symposium*, Guangzhou, China, March, 2012
5. Diabetes during and beyond pregnancy- an epidemiological perspective. Division of Nutritional Sciences, Cornell University, April, 2011

6. Novel risk factors of gestational diabetes- from an epidemiological perspective. Clinical grand round, Oklahoma Diabetes Center, April, 2010
7. Diabetes during and beyond pregnancy- long-term health implications of diabetes during pregnancy. *Kelly West Annual Lecture* University of Oklahoma Health Sciences Center, April, 2010.
8. Impact of diet and lifestyle factors on the risk for gestational diabetes: Review focusing on epidemiologic evidence *international Conference of Developmental Origins of Health and Disease*, Munich, May, 2010.
9. Stages of the lifecycle and risk for onset and progression of diabetes and its complications. *The 70<sup>th</sup> American Diabetes Association Annual Scientific Sessions*, June, 2010.
10. Etiology and prevention of gestational diabetes. *5<sup>th</sup> International Symposium on Diabetes in Pregnancy*. Sorrento, Italy, March, 2009.
11. Genetic and modifiable risk factors for gestational diabetes- an update. John Hopkins Bloomberg School of Public Health, November, 2008.
12. Genetic, diet and lifestyle factors and the risk for gestational diabetes mellitus. Harvard School of Public Health, Boston, MA, USA, April, 2007.
13. Epidemiology/risk of developing type 2 diabetes for women with a history of gestational diabetes mellitus. CDC Conference on Gestational Diabetes Beyond Pregnancy, Atlanta, GA, USA, April, 2007.
14. Genetic and lifestyle factors in relation to the risk for gestational diabetes mellitus Division of Epidemiology, Statistics, and Prevention Research, NICHD, NIH, Rockville, MD, USA December, 2006.
15. Physical activity in relation to the risk for gestational diabetes mellitus Department of Epidemiology, Harvard School of Public Health, Boston, MA, USA, January, 2005.
16. The role of vitamin C in the development of gestational diabetes mellitus Department of Epidemiology, University of Michigan, Ann Arbor, MI, USA, June, 2003.
17. Vitamin C and gestational diabetes mellitus Department of Epidemiology and Biostatistics, University of South Carolina, SC, USA, June, 2003.
18. Plasma carotenoids, retinol and tocopherols in preeclamptic and normotensive pregnant Women (Award presentation) *Annual Meeting of Society for Pediatric and Perinatal Epidemiologic Research*, Seattle, WA, USA, June, 2000.

## **I. TEACHING & MENTORING (since 2008)**

Faculty/Instructor, Summer Institute in Reproductive and Perinatal Epidemiology, 2010, 2011.

Jointly sponsored by the *Eunice Kennedy Shriver* National Institute of Child Health and Human Development, National Institutes of Health and the Canadian Institute for Health Research (lecturing ‘Genetic Epidemiology’ and ‘Pregnancy Complications’)

NIH Summer Interns

- 2008 Chunyan He, Departments of Epidemiology and Genetics and Complex Diseases, Harvard School of Public Health (Currently, Tenure-track Assistant Professor of Epidemiology, Indiana University)
- 2009 Deirdre Banel, Doctoral Student of Epidemiology and Nutrition, Harvard School of Public Health
- 2010 Eric Shiroma, Doctoral Student of Epidemiology, Harvard School of Public Health.
- 2011 Jennifer Brite, MPH student of Epidemiology, Columbia University
- 2012 Kelly Martin, MPH student of Epidemiology, George Mason University

NIH Intramural Research Training Award Postdoctoral Fellows (IRTAs)

- 2008-2009 Liwei Chen, MD, PhD (Department of Epidemiology, Johns Hopkins University), (Tenure-track Assistant Professor of Epidemiology, Louisiana State University, 2009-2012; Chief Epidemiologist, MERK, 2012)
- 2008-2011 Edwina Yeung, PhD (Department of Epidemiology, Johns Hopkins University) (Currently, Tenure-track Investigator, NICHD/NIH) (Co-mentored with Dr. Enrique Schisterman)
- 2009-2011 Katherine Bowers, PhD (Department of Epidemiology, Johns Hopkins University), (Currently, Tenure-track Assistant Professor of Epidemiology, Cincinnati Children's Hospital Medical Center)
- 2011 Wei Bao, MD, PhD (Tongji Medical College, Huazhong University of Science and Technology, China)

Award Received by IRTA Fellows:

Katherine Bowers, PhD, *the Fellows Award for Research Excellence (FARE) 2011*, National Institutes of Health for her work entitled "Postnatal weight gain and high blood pressure among Chinese children"

*Outstanding Plenary Presentation Award:* Tobias D, Zhang C, Chavarro J, Bowers K, Hu F Pre-pregnancy adherence to dietary patterns and decreased risk of gestational diabetes mellitus Society for Pediatric and Perinatal Epidemiologic Research, 2011

*Poster Award:* Bowers K, Tobias D, Edwina Yeung E, Hu FB, Zhang C A prospective study of pre-pregnancy dietary fat intake and risk for gestational diabetes Society for Pediatric and Perinatal Epidemiologic Research, 2011

## **J. RESEARCH SUPPORTS**

### **Ongoing Research Support**

#### **Intramural – National Institutes of Health**

#### **Principal Investigator:**

Diabetes & Women's Health Study- a study of long-term health implications of gestational diabetes (2010-2015) (\$8,485,403.00)

A large retrospective cohort study to investigate the biological, genetic, and lifestyle determinants for the progression from gestational diabetes to type 2 diabetes and related cardiometabolic complications.

Novel metabolic biochemical markers & gestational diabetes (2008-2013) (\$4,616,527.00; nested in the NICHD Fetal Growth Studies and the EAGeR trial)

A prospective study to determine the role of novel cardiometabolic bio-markers and targeted and non-targeted metabolomics in the pathogenesis and prediction of gestational diabetes and related pregnancy complications.

**Co-Investigator:**

NICHD Fetal Growth Studies: singletons and twins (2008-2013)

A multicenter prospective observational study (1) to establish a U.S. national standard for normal fetal growth (velocity) and size for gestational age; (2) to create an individualized standard for optimal fetal growth; and (3) to improve accuracy of fetal weight estimation.

(PI: Dr. Buck Louis G)

The Effects of Aspirin in Gestation and Reproduction (EAGeR) Study (2008-2012)

The study is to assess the efficacy and safety of low dose aspirin + folic acid on the prevention of early pregnancy failure and later pregnancy events compare to folic acid alone

(PI: Dr. Schisterman E)

**Extramural- National Institutes of Health**

**Principal Investigator:**

Dietary iron supplement and iron metabolism biomarkers in pregnancy and the risk of gestational diabetes (2012-2013) (Role: Mentor; PIs Drs. Bao & Bowers)

This project is supported by Office of Dietary Supplements, National Institutes of Health

**Co-Investigator:**

Longitudinal study of dietary patterns in pregnancy (2008-2012) (PI: Dr. Grewal J)

This project is supported by Office of Dietary Supplements, National Institutes of Health

Longitudinal measurements of dietary caffeine intake and biochemical markers in women participating in the BioCycle Study. (2010-2012) (PI: Dr. Schisterman E)

This project is supported by Office of Dietary Supplements, National Institutes of Health

**Completed Research Support**

**Intramural – National Institutes of Health**

Confirmation of genetic signals from genome wide association study of adiposity (2008-2012) (Role: Principal Investigator)

To identify genome wide genetic signals that may predispose to abdominal adiposity.

**Extramural- National Institutes of Health (2007-2011)**

NIDDK K01: Genetic Factors, Gene-Environment Interaction, and the Risk of Gestational Diabetes (Role: Principal Investigator)  
Selected for funding, terminated due to the change of appointment.